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L1	10690	composition and thermostable	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/11/08 09:13
L2	3877	1 and @py<"2002"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/11/08 09:14
L3	93	2 and endoglucanase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/11/08 09:15
L4	65	3 and xylanase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/11/08 09:24
L5	9	4 and feed additive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/11/08 09:16

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xylanase and endoglucanase


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- ☐ 1. [SCOP: Family: Xylanase/endoglucanase 11/12](#) [10K]  
Oct 2002  
Structural Classification of Proteins Family: **Xylanase/endoglucanase**  
11/12 Lineage: Root: scop Class: All...Concanavalin A-like  
lectins/glucanases Family: **Xylanase/endoglucanase** 11/12 Protein  
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- ☐ 2. [Induction of Mannanase, Xylanase, and Endoglucanase Activities in Sclerotium rolfisii](#)  
**Sachslehner, Alois / Nidetzky, Bernd / Kulbe, Klaus D. / Haltrich, Dietmar, Applied and Environmental Microbiology**, Sep 2002  
...Synthesis of mannanase, **xylanase**, and **endoglucanase** always occurred concomitantly...focusing. Whereas enhanced **xylanase** and **endoglucanase** formation is strictly...constitutive levels of **xylanase** and **endoglucanase** were formed. Although...
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- ☐ 3. [Constitutive expression of the Trichoderma reesei beta-1,4-xylanase gene \(xyn2\) and the beta-1,4-endoglucanase gene \(egl\) in Aspergillus niger in molasses and defined glucose media.](#)  
**Rose, S H / van Zyl, W H, Applied microbiology and biotechnology**, Mar 2002  
The **xylanase** II (xyn2)- and **endoglucanase** I (egl)-encoding regions of Trichoderma...xyn2 transformant produced beta-**xylanase** activity of 8,000 nkat/ml and...20% molasses medium. Maximum **endoglucanase** activity was obtained at pH 5...

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Mar 2002  
...glycosyl hydrolases. **Xylanases** normally group...normally contains **endoglucanases**. The structure...for the family 8 **endoglucanase** from Clostridium...differences with the **xylanase** structure in many...psychrophilic **xylanase**, while there are...in the family 8 **endoglucanase** structure. A more...  
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- ☐ 5. [Molecular cloning and expression of a novel family A endoglucanase gene from Fibrobacter succinogenes S85 in...](#)  
**Cho, K.K. / Kim, S.C. / Woo, J.H. / Bok, J.D. / Choi, Y.J., Enzyme and Microbial Technology**, Oct 2000  
...encoding enzyme with both **endoglucanase** and **xylanase** activities. This study...indicated the production of **endoglucanase** or **xylanase**. 2.3 DNA sequence analysis...site of pUC19. To isolate **endoglucanase** and **xylanase** genes, clones expressing...  
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- ☐ 6. [Efficient production of cellulolytic and xylanolytic enzymes by the rumen anaerobic fungus, Neocallimastix frontalis, in a repeated batch culture.](#)  
**Srinivasan, K / Murakami, M / Nakashimada, Y / Nishio, N, Journal of bioscience and bioengineering**, Jan 2001  
...batch culture was carried out whereby none of the fatty acids exceeded 50 mM. In this repeated batch culture, **xylanase**, **endoglucanase**, beta-glucosidase, and avicelase were continuously produced in the medium during cultivation, and 18200, 4550...  
  
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- ☐ 7. [Enzymatic modifications of pectins and the impact on their rheological properties](#)  
**Schmelter, T. / Wientjes, R. / Vreeker, R. / Klaffke, W., Carbohydrate Polymers**, Feb 2002  
...Pectin De-esterification **Xylanase** Rhamnogluconase **Endoglucanase** 1 Introduction Pectins...The reactions with **endoglucanase** and **xylanase** were carried out at...galactase, arabinase, **endoglucanase** or **xylanase**). In the absence of...  
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- ☐ 8. [Endo-Beta-1,4 Xylanase \[39K\]](#)  
Jul 2001  
...PRECURSOR (EC 3.2.1.8) (34 KDA **XYLANASE**) (1,4- BETA-D-XYLAN XYLANOHYDROLASE...XYL3)FAMILY F **XYLANASE**. [Fusarium oxysporum f. sp...PUTATIVE **ENDOGLUCANASE** TYPE F PRECURSOR (EC 3.2.1...XYL1) PUTATIVE **XYLANASE** PRECURSOR (EC 3.2.1.8). [Agaricus...  
[more hits from](#) [<http://www.mrc-lmb.cam.ac.uk/genomes/date/1bg4.html>]  
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- ☐ 9. Localization of an endoglucanase and a xylanase from *Aspergillus niger* in soybean by immunogold-cytochemical labeling.  
**Varzakas, T / Pyle, D L / Niranjan, K**, *Annals of the New York Academy of Sciences*, Oct 1996

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- ☐ 10. The production of endoglucanase and  $\beta$ -xylanase by immobilized cells of streptomyces  
**Legon, T. / Penninckx, M. / Erpicum, T.**, *Biomass*, Jan 1988  
 ...Communication The Production of **Endoglucanase** and **-Xylanase** by Immobilized Cells of...straw, lignocellulose, **endoglucanase**, fl-**xylanase**, Strep- tomyces, actinomycetes...standard. Units of fl-**xylanase** and **endoglucanase** activity (U) are #mol...

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- ☐ 11. Endoglucanase activity and relative expression of glycoside hydrolase genes of *Fibrobacter succinogenes* S85 grown on different substrates.  
**Béra-Maillet, C / Gaudet, G / Forano, E**, *Biochimica et biophysica acta*, Nov 2000  
 ...extracellular culture fluid **endoglucanase** activities measured...polysaccharides suggested that the **endoglucanases** induced by the insoluble...grown on cellulose. **Endoglucanase**-encoding endB and endA(FS) genes, and **xylanase**-encoding xynC gene appeared...

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- ☐ 12. Cellulase and xylanase activity of fungi in a collection isolated from the southern Caucasus  
**Kvesitadze, E. / Adeishvili, E. / Gomarteli, M. / Kvachadze, L. / Kvesitadze, G.**, *International Biodeterioration and Biodegradation*, Jun 1999  
 ...cases the activities of **endoglucanase** and **xylanase** were expressed in nkat...new, more heat stable **endoglucanase** and **xylanase** ( Kvesitadze et al., 1992...curves are presented for **endoglucanase** and **xylanase** thermal inactivation at...

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- ☐ 13. Thermolabile xylanase of the Antarctic yeast *Cryptococcus adeliae*: production and properties.  
**Gomes, J / Gomes, I / Steiner, W**, *Extremophiles : life under extreme conditions*, Aug 2000  
**Xylanase** production by the Antarctic psychrophilic...having an initial pH of 7.5 yielded **xylanase** activity at 400 nkat (nanokatal...degrees C. In addition, very little **endoglucanase**, beta-mannanase, beta-xylosidase...carbon sources tested, maximum **xylanase** activity was induced by xylan...

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- ☐ **14. [Endoglucanase and Mannanase from Blue Mussel, Mytilus edulis: Purification, Characterization, Gene and Three Dimensional ...](#)**  
**Xu, Bingze**, Apr 2002  
**Endoglucanase** and Mannanase from Blue Mussel, Mytilus edulis Purification...at Uppsala University in 2002 ABSTRACT Xu, B. 2002.  
**Endoglucanase** and Mannanase from Blue Mussel, Mytilus edulis: Purification...substrate specificity. The amino acid sequence of the **endoglucanase** has been determined at the protein level. The two...  
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- ☐ **15. [Enzyme activity recovery from secondary fiber treated with cellulase and xylanase](#)**  
**Jackson, L.S. / Joyce, T.W. / Heitmann, J.A. / Giesbrecht, F.G.,**  
*Journal of Biotechnology*, Feb 1996  
 ...preparation activities a **Xylanase endoglucanase** exoglucanase filterpaper...31109967654 329132ss47 a **Endoglucanase**, exoglucanase, filter paper, and **xylanase** activi- ties were...80.013.13.9 a **Endoglucanase**. exoglucanase, filter paper and **xylanase** activities were...  
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- ☐ **16. [Endoglucanase and Mannanase from Blue Mussel, Mytilus edulis: Purification, Characterization, Gene and Three Dimensional ...](#)**  
**Xu, Bingze**, Jan 2002  
 ...Reader Author: Xu, Bingze Title: **Endoglucanase** and Mannanase from Blue Mussel, Mytilus...specificity. The amino acid sequence of the **endoglucanase** has been determined at the protein...classification has revealed that the **endoglucanase** belongs to the glycoside hydrolase...  
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- ☐ **17. [Simultaneous production of high activities of thermostable endoglucanase and beta-glucosidase by the wild thermophilic fungus Thermoascus aurantiacus.](#)**  
**Gomes, I / Gomes, J / Gomes, D J / Steiner, W,** *Applied microbiology and biotechnology*, Apr 2000  
 ...production of high activities of **endoglucanase** and beta-glucosidase by Thermoascus...yielded 1130 nkat ml(-1) **endoglucanase** and 116 nkat ml (-1) beta...addition, good levels of beta-**xylanase** (3479 nkat ml(-1)) and low...production of 940 nkat ml(-1) **endoglucanase** and 102 nkat ml(-1) beta...  
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- ☐ **18. [Mixed submerged fermentation with two filamentous fungi for cellulolytic and xylanolytic enzyme production.](#)**  
**Garcia-Kirchner, O / Muñoz-Aguilar, M / Pérez-Villalva, R / Huitrón-Vargas, C,** *Applied biochemistry and biotechnology*, Apr 2002  
 ...activities: exoglucanase, **endoglucanase**, beta-glucosidase, and **xylanase**. Previous studies with the...production of cellulases and

**xylanases.** The 48-h batch experimental...mainly beta-glucosidase), and **xylanase** activities compared with...

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- ☐ **19.** [Monitoring on-line desalted lignocellulosic hydrolysates by microdialysis sampling micro-high performance anion exchange chromatography with integrated pulsed electrochemical detection/mass spectrometry.](#)  
**Rumbold, Karl / Okatch, Harriet / Torto, Nelson / Siika-Aho, Matti / G  b  tz, Georg / Robra, Karl-Heinz / Prior, Bernard, *Biotechnology and bioengineering*, Jun 2002**  
 ...substrate were not depleted due to the perm-selectivity of the MD membrane (30 kDa cut-off). **Xylanase**, phenolic acid esterase and a combination of **endoglucanase** (EG II) with cellobiohydrolase (CBH I) resulted in the production of DP 1 after the addition...

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- ☐ **20.** [A Fungal Endoglucanase with Plant Cell Wall Extension Activity](#)  
**Yuan, Sheng / Wu, Yajun / Cosgrove, Daniel J., *Plant Physiology*, Sep 2002**  
 ...Cel12A has strong endo-glucanase activity against xyloglucan and (1  3,1  4)-  2-glucan, but did not exhibit endo-**xylanase**, endo-mannase, or endo-galactanase activities. In terms of kinetics of action and effects on wall rheology, wall loosening...

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**Induction of Mannanase, Xylanase, and Endoglucanase Activities in Sclerotium rolfsii - group of 5 »**

A Sachslehner, B Nidetzky, KD Kulbe, D Haltrich - Applied and Environmental Microbiology, 1998 - aem.asm.org

... Whereas enhanced **xylanase** and **endoglucanase** formation is strictly dependent on the presence of suitable inducers, increased levels of mannanase are excreted by ...

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**Production, purification, and properties of thermostable xylanase from Clostridium stercoarium. - group of 2 »**

JF Berenger, C Frixon, J Bigliardi, N Creuzet - Canadian Journal of Microbiology/Revue Canadienne de ..., 1985 - csa.com

... CHARACTERIZATION. The production of **xylanase** and **endoglucanase** in Clostridium stercoarium has been studied in different conditions. Activities ...

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**Production, Properties, and Application of Xylanase from Aspergillus niger A 3 - group of 4 »**

JMIN CAI, KE WU, JIE ZHANG, RENRUI PAN - Annals of the New York Academy of Sciences, 1998 - annalsonline.org

... culture was suspended in 0.2 M acetate buffer and left at 25 °C for 3 h. The suspension was filtered and assayed for **xylanase** and **endoglucanase** activities. ...

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**Fibrobacter succinogenes S 85 has multiple xylanase genes - group of 2 »**

LM Malburg Jr, DC Smith, HE Schellhorn, CW ... - Journal of applied bacteriology. Oxford, 1993 - csa.com

... XC30 **xylanase**, also exported in E. coli, was a 77 kDa protein which exhibited both **xylanase** and **endoglucanase** activities, and a low cellobiosidase activity. ...

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**Xylanase production by Trichoderma harzianum E58 - group of 3 »**

DJ Senior, PR Mayers, JN Saddler - Applied Microbiology and Biotechnology, 1989 - Springer

... Dramatic differences in the ratio of **xylanase** to **endoglucanase** activities were observed among cultures grown on cellulose-rich Solka Floc and xylan. ...

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**Nucleotide sequence and deletion analysis of the xylanase gene (xynZ) of Clostridium thermocellum. - group of 5 »**

O Grepinet, MC Chebrou, P Beguin - Journal of Bacteriology, 1988 - jb.asm.org

... the **Xylanase** Gene ... The nucleotide sequence of the xynZ gene, encoding the extracellular

**xylanase Z** of Clostridium thermocellum, was determined. ...

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Purification of Clostridium thermocellum **xylanase** Z expressed in Escherichia coli and identification ... - group of 4 »

O Grepinet, MC Chebrou, P Beguin - Journal of Bacteriology, 1988 - jb.asm.org  
... displays **endoglucanase**, cellobiohydrolase, and glucohydrolase activity (6).  
Garcia-Martinez et al. (5) reported that C. thermocellum secretes **xylanase** activity ...  
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Quantitative determination of wood-derived soluble oligosaccharides by HPLC - group of 3 »

J Buchert, M Siika-aho, M Bailey, J Puls, A ... - Biotechnology Techniques, 1993 - Springer  
... was studied in samples obtained by hydrolyzing softwood kraft pulp partially with  
T. reesei **xylanase**, **endoglucanase** I and a mixture of mannanase and **xylanase**. ...  
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Selective solubilization of xylan in pulp using a purified **xylanase** from Trichoderma harzianum - group of 2 »

DJ Senior, PP Mayers, D Miller, R Sutcliffe, L Tan ... - Biotechnology Letters, 1988 - Springer

... **Xylanase** and **endoglucanase** activities were determined for all enzyme preparations, using oat speltis xylan and carboxymethylcellulose, respectively, as ...

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**Xylanase** B and an arabinofuranosidase from Pseudomonas fluorescens subsp. cellulosa contain ... - group of 5 »

LE Kellett, DM Poole, LM Ferreira, AJ Durrant, GP ... - Biochem. J, 1990 - pubmedcentral.nih.gov

... is not necessary for catalytic activity or substrate binding in a **xylanase**. ... S.; Wilson, David B. Cloning of the Thermomonospora fusca **Endoglucanase** E2 Gene in ...

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